

TRI. RPT. 13198

pt. 4c. REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 16821 (GENOVA)

Received at London Office - 1 NOV 1948

Date of writing Report 22/8/1948 When handed in at Local Office 31.8.1948 Port of GENOVA

No. in Survey held at GENOVA Date, First Survey 13/10/47 Last Survey 14/6/1948

723 on the Single Screw vessel C.R.D.A. Yard No. "1737" M.V. "TOMAR" Number of Visits 8 Tons Gross 6410 Net 3869

built at MONFALCONE By whom built CANTIERI RIUNITI DELL'ADRIATICO Yard No. 1737 When built 1948

owners WILH. WILHELMSSEN Port belonging to TONSBERG

Oil Engines made at GENOVA-SAMPIERDARENA By whom made S.A. ANSAIDO-STAB. MECCANICO Contract No. 1503332 When made 1948

Generators made at GENOVA-CORNIGLIANO By whom made S.A. ANSAIDO-STAB. ELETTROTECNICO Contract No. 13055 When made 1948

No. of Sets 1 Engine Brake Horse Power 46 M.N. as per Rule 11.5 Total Capacity of Generators 30 Kilowatts

Set intended for essential services Yes

OIL ENGINES, &c.—Type of Engines Ansaldo Q150/3 Airless injection 2 or 4 stroke cycle 4 Single or double acting Single

Maximum pressure in cylinders 58 Kg/cm2 Diameter of cylinders 150 m/m Length of stroke 200 m/m No. of cylinders 3 No. of cranks 3

Mean indicated pressure 6.4 Kg/cm2 Firing order in cylinders 1-2-3- Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 173 m/m

Is there a bearing between each crank Yes Moment of inertia of flywheel [redacted] Revolutions per minute 1750 oil

Flywheel dia. 900 m/m Weight 455 Kg. Means of ignition Compression Kind of fuel used Diesel oil

Crank Shaft, dia. of journals as per Rule as approved 110 m/m Crank pin dia. 98 m/m Crank Webs Mid. length breadth 180 m/m Thickness parallel to axis [redacted]

Flywheel Shaft, diameter as per Rule as approved 110 m/m Intermediate Shafts, diameter as fitted [redacted] General armature, moment of inertia [redacted]

Are means provided to prevent racing of the engine when detached Governor Means of lubrication Forced Kind of damper if fitted hardy type

Are the cylinders fitted with safety valves No Are the exhaust pipes and silencers water cooled or lagged with non-conducting material Lagged

Cooling Water Pumps, No. One centrifugal: 4 m3/h Is the sea suction provided with an efficient strainer which can be cleared within the vessel YES

Lubricating Oil Pumps, No. and size One gear type: 2 m3/h

Air Compressors, No. - No. of stages - Diameters - Stroke - Driven by -

Scavenging Air Pumps, No. - Diameter - Stroke - Driven by -

AIR RECEIVERS:—Have they been made under Survey Yes State No. of Report or Certificate herewith attached.

Is each receiver, which can be isolated, fitted with a safety valve as per Rule -

Can the internal surfaces of the receivers be examined Yes What means are provided for cleaning their inner surfaces wire brushes

Is there a drain arrangement fitted at the lowest part of each receiver Yes

High Pressure Air Receivers, No. - Cubic capacity of each - Internal diameter - thickness -

Seamless, lap welded or riveted longitudinal joint - Material - Range of tensile strength - Working pressure by Rules -

Starting Air Receivers, No. One Total cubic capacity 160 lit. Internal diameter 351 m/m thickness 8.5 m/m

Seamless, lap welded or riveted longitudinal joint seamless Material steel Range of tensile strength 55/65 Kg/mm2 Working pressure by Rules 35 Kg/cm2

ELECTRIC GENERATORS:—Type Protected - Self Ventilated.

Pressure of supply 220 volts Full Load Current 136 Amperes Direct or Alternating Current Direct

If alternating current system, state the periodicity - Has the Automatic Governor been tested and found as per Rule when full load is suddenly thrown

on and off Yes Generators, are they compounded as per Rule Yes is an adjustable regulating resistance fitted in series with each shunt field Yes

Are all terminals accessible, clearly marked, and furnished with sockets Yes Are they so spaced

or shielded that they cannot be accidentally earthed, short circuited, or touched Yes Are the lubricating arrangements of the generators as per Rule Yes

If the generators are under 100 kw. full load rating, have the makers supplied certificates of test Yes and do the results comply with the requirements Yes

If the generators are 100 kw. or over have they been built and tested under survey Yes

Details of driven machinery other than generator -

PLANS.—Are approved plans forwarded herewith for Shafting 5/3/47 as for Ansaldo Receiver 10/6/47 Separate Tanks -

Have Torsional Vibration characteristics if applicable been approved - Armature shaft Drawing No. -

SPARE GEAR SUPPLIED AT TRIESTE IN ACCORDANCE WITH RULES.

The foregoing is a correct description,

ANSAIDO S.A. STABILIMENTO MECCANICO Manufacturer. Un Vice Direttore (Sgd) Illegible



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004684-004692-0254

Dates of Survey while building: During progress of work in shops - - From 13/10/47 to 14/6/48
 During erection on board vessel - - -
 Total No. of visits 8

Dates of Examination of principal parts: Cylinders 13/10/47-26/2/48 Covers 16/10/47 Pistons 18/2/48 Piston rods -
 Connecting rods 25/3/48 Crank and Flywheel shafts 25/3/48 Intermediate shafts -

Crank shaft: Material Nickel Steel Tensile strength 90 Kg/mm2
 Elongation 16% Identification Marks Lloyd's 220 AG 25/3/48

Flywheel shaft, Material - Identification Marks -

Identification marks on Air Receivers: 1-89835
 LLOYD'S TEST
 70 Kg/cm2
 W.P. 35 Kg/cm2
 Gm. 23/7/47.

Is this machinery duplicate of a previous case? Yes. If so, state name of vessel: "VERNA CLAUSEN" see Genoa Report No. 16776.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This set has been constructed under special survey of tested materials, and is in accordance with the secretary's Letters, approved plans and rule requirements. The materials and workmanship are good. The oil engine coupled to its electric generator (Certificate of test sent to Trieste) has been tried under working condition on the bench and found satisfactory.

This set has now been despatched to Trieste to be fitted on board the C.R.D.A. Yard No. "1737".

This engine and its electric generator have been fitted on board the vessel in an efficient manner and found satisfactory when tested under full working conditions.
John McAfee

The amount of Fee ... £ : : When applied for ... 19
 Travelling Expenses (if any) £ : : When received ... 19

20.8.47.-T. (MADE AND PRINTED IN ENGLAND)
 (The Surveyors are requested not to write on or below the space for Committee Minute.)

Committee's Minute: FRI, 20 MAY 1949
 Assigned: In minute see J.S. Rpe

(Sgd) A. GRASELLI, 2020
 Surveyor to Lloyd's Register of Shipping.

